

11/16/18

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007C

Reviewer: Sarraino

Consolidated Cases: P-18-0007 & P-18-0008

This assessment has been updated per release predictions in Test Data Review Engineering Report Post-Focus Draft Revision 2, dated 06/26/18, and ecotox changes (updated from 1 ppb to 1,000 ppb). Possible exposure to consumers was assessed in this version, dated 11/16/18.

Results Table: Dose, Concentration, and Days Exceeded Results Summary

Exposure Scenario ¹	Water						Landfill	Stack Air		Fugitive Air	
Release activity(ies) ² ; exposure calculation(s) ³	Drinking Water		Fish Ingestion		7Q10 ⁴ CC = 1,000	PDM Days Exceeded	LADD	ADR (24-hr conc.)	LADD (Annual conc.)	ADR (24-hr conc.)	LADD (Annual conc.)
	ADR	LADD	ADR	LADD							
	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	µg/l	# Days	mg/kg/day	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)
MFG: Max LADD	---	---	---	---	---	---	3.30E-04	---	---	---	---
PROC: Max ADR: max acute eco	2.76E-04	---	9.40E-05	---	1.25E+01	---	---	---	---	2.56E-02 (1.40E+02)	---
PROC: PDM1	---	---	---	---	1.25E+01	0	---	---	---	---	---
PROC: Max LADD	---	8.46E-06	---	7.32E-07	---	---	6.55E-03	---	---	---	5.80E-04 (7.49E+00)
USE: Max ADR: max acute eco	2.14E-03	---	7.28E-04	---	9.66E+01	---	---	---	---	---	---
USE: PDM1	---	---	---	---	9.66E+01	1	---	---	---	---	---
USE: Max LADD	---	6.56E-05	---	5.67E-06	---	---	5.97E-04	---	---	---	2.61E-04 (3.37E+00)

¹ Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.

² Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels. Multiple release activities are combined in one exposure scenario if their releases occur at same location.

³ Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario.

CC is the aquatic concentration of concern.

⁴ This column displays concentration values for the 7Q10 streamflow, which is defined as the average daily streamflow of the seven consecutive days of lowest flow within a ten year period.

Remarks: PV >

PROC – Plastic Resins and Synthetic Fiber Manufacture

USE – Plastic Resins and Synthetic Fiber Manufacture

Consumer Exposure Results Summary Table:

Youth (11-15 years)
 Child (6-10 years)
 Small Child (3-5 years)
 Infant (1-2 years)
 Infant (<1 year)

Results Table: Exposure Based (XB)/Persistent (P2B2) Criteria

Parameter	Exp Based	Persistent	Exceedance Value
Drinking (Surface) Water Dose (mg/kg/day)	■	NA	
Fish Ingestion Dose (mg/kg/day)	■	NA	
Inhalation Dose (mg/kg/day)	■	NA	
Groundwater Dose (mg/kg/day)	■	NA	■
Surface Water Release After Treatment (kg/yr)	■	NA	■
Total Release After Treatment (kg/yr)	■	NA	■
Consumer Use?	■		

Fate test recommendations?: (default is NA)

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

Assessor: Sarraino/null

ENVIRONMENTAL RELEASES

Scenario#:1

Number of Release Sites: 20.

Release Activity: MFG:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	█ (kg/yr)	██████ (kg/yr)	█ (kg/yr)	█ (kg/yr)
Release Days/yr:	█	██████	█	█
Per Site Release:	█ (kg/site/day)	██████ (kg/site/day)	█ (kg/site/day)	█ (kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 1

ACTIVITY: MFG:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE ¹ AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR ²	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
20.	████████	████████	Moderate	0.00	0.00

¹ Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD _{pot} (mg/kg/day)	3.30E-04	33.00	78.00	80.00	1.04
LADC _{pot} (mg/L)	2.54E-02	33.00	78.00	NA	NA

REMARKS:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

Assessor: Sarraino/null

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: PROC:Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

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Per Site Release:

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

Number of Sites: 1

RELEASE

ACTIVITY:PROC:Max ADR

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	■	■	0.00	12.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	7.57E-02	0.17	0.25	0.30
ALL	10	44.53	13.72	8.02	7.44	2.25	7.29	12.47	13.44

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.85E-07	8.46E-06	mg/kg/day	2.47E-08	7.32E-07	mg/kg/day
LADC _{pot}	2.19E-05	6.51E-04	mg/L	2.63E-04	7.81E-03	mg/kg
Acute						
ADR _{pot}	6.27E-06	2.76E-04	mg/kg/day	3.17E-06	9.40E-05	mg/kg/day

SIC Code Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 2

RELEASE ACTIVITY:PROC:Max ADR

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: 1.

Per Site Fugitive Release: ■ kg/site/day

Fugitive Release Days per Year: 250.00 days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: 250.00 kg/yr

Max Annual Average Air Concentration (Fugitive): 7.49 $\mu\text{g}/\text{m}^3$

Max 24 Hour Average Air Concentration(Fugitive): 140.00 $\mu\text{g}/\text{m}^3$

Per Site Stack Release: ■ kg/site/day

Stack Release Days per Year: NA days

% Removal via Stack Release: 99.90 %

Total Stack Release: ■ kg/yr

Max Annual Average Air Concentration (Stack): 0.00 $\mu\text{g}/\text{m}^3$

Max 24 Hour Average Air Concentration (Stack): 0.00 $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	5.80E-04	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	3.17E-03	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	2.56E-02	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

Assessor: Sarraino/null

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: PROC:PDM

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

(kg/yr)

(kg/yr)

(kg/yr)

(kg/yr)

Non-sludge/Sludge

Release Days/yr:

Per Site Release:

(kg/site/day)

(kg/site/day)

(kg/site/day)

(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3

Number of Sites: 1

RELEASE
ACTIVITY:PROC:PDM

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	■	■	0.00	12.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	7.57E-02	0.17	0.25	0.30
ALL	10	44.53	13.72	8.02	7.44	2.25	7.29	12.47	13.44

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.85E-07	8.46E-06	mg/kg/day	2.47E-08	7.32E-07	mg/kg/day
LADC _{pot}	2.19E-05	6.51E-04	mg/L	2.63E-04	7.81E-03	mg/kg
Acute						
ADR _{pot}	6.27E-06	2.76E-04	mg/kg/day	3.17E-06	9.40E-05	mg/kg/day

SIC Code Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3

RELEASE ACTIVITY: PROC:PDM

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1000.00	0	0	250.00	■	90.00	High

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

Assessor: Sarraino/null

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: PROC:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

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Per Site Release:

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

Number of Sites: 1

RELEASE

ACTIVITY:PROC:Max LADD

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	1.			0.00	12.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	N/A	N/A	N/A	N/A
ALL	10	44.53	13.72	8.02	7.44	N/A	N/A	N/A	N/A

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.85E-07	8.46E-06	mg/kg/day	2.47E-08	7.32E-07	mg/kg/day
LADC _{pot}	2.19E-05	6.51E-04	mg/L	2.63E-04	7.81E-03	mg/kg
Acute						
ADR _{pot}	N/A	N/A	mg/kg/day	N/A	N/A	mg/kg/day

SIC Code Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 4

ACTIVITY: PROC:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE ¹ AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR ²	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
1.	██████████	██████████	Moderate	0.00	0.00

¹ Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD _{pot} (mg/kg/day)	6.55E-03	33.00	78.00	80.00	1.04
LADC _{pot} (mg/L)	0.50	33.00	78.00	NA	NA

REMARKS:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 4

RELEASE ACTIVITY:PROC:Max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	1.
Per Site Fugitive Release:	█ kg/site/day
Fugitive Release Days per Year:	1.00 days
% Removal via Fugitive Release:	0.00 %
Total Fugitive Release:	█ kg/yr
Max Annual Average Air Concentration (Fugitive):	7.49 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration(Fugitive):	N/A $\mu\text{g}/\text{m}^3$
Per Site Stack Release:	█ kg/site/day
Stack Release Days per Year:	NA days
% Removal via Stack Release:	99.90 %
Total Stack Release:	█ kg/yr
Max Annual Average Air Concentration (Stack):	0.00 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration (Stack):	N/A $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	5.80E-04	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	3.17E-03	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	N/A	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

Assessor: Sarraino/null

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 11.

Release Activity: USE:Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

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Per Site Release:

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5

Number of Sites: 11

RELEASE ACTIVITY:USE:Max
ADR

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.	■	■	0.00	12.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	0.59	1.28	1.92	2.36
ALL	10	44.53	13.72	8.02	7.44	17.40	56.49	96.63	104.17

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.21E-06	6.56E-05	mg/kg/day	1.91E-07	5.67E-06	mg/kg/day
LADC _{pot}	1.70E-04	5.04E-03	mg/L	2.04E-03	6.05E-02	mg/kg
Acute						
ADR _{pot}	4.86E-05	2.14E-03	mg/kg/day	2.45E-05	7.28E-04	mg/kg/day

SIC Code Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

Assessor: Sarraino/null

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 11.

Release Activity: USE:PDM

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

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(kg/yr)

(kg/yr)

(kg/yr)

(kg/yr)

Non-sludge/Sludge

Release Days/yr:

Per Site Release:

(kg/site/day)

(kg/site/day)

(kg/site/day)

(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6

Number of Sites: 11

RELEASE ACTIVITY:USE:PDM

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	250.			0.00	12.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	0.59	1.28	1.92	2.36
ALL	10	44.53	13.72	8.02	7.44	17.40	56.49	96.63	104.17

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.21E-06	6.56E-05	mg/kg/day	1.91E-07	5.67E-06	mg/kg/day
LADC _{pot}	1.70E-04	5.04E-03	mg/L	2.04E-03	6.05E-02	mg/kg
Acute						
ADR _{pot}	4.86E-05	2.14E-03	mg/kg/day	2.45E-05	7.28E-04	mg/kg/day

SIC Code Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6

RELEASE ACTIVITY: USE:PDM

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1000.00	0	1	250.00	■	90.00	High

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

Assessor: Sarraino/null

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 11.

Release Activity: USE:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

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Per Site Release:

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 7

Number of Sites: 11

RELEASE ACTIVITY:USE:Max
LADD

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	1.			0.00	12.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	N/A	N/A	N/A	N/A
ALL	10	44.53	13.72	8.02	7.44	N/A	N/A	N/A	N/A

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.21E-06	6.56E-05	mg/kg/day	1.91E-07	5.67E-06	mg/kg/day
LADC _{pot}	1.70E-04	5.04E-03	mg/L	2.04E-03	6.05E-02	mg/kg
Acute						
ADR _{pot}	N/A	N/A	mg/kg/day	N/A	N/A	mg/kg/day

SIC Code Comments:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 7

ACTIVITY: USE:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE ¹ AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR ²	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
11.	████████	████████	Moderate	0.00	0.00

¹ Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD _{pot} (mg/kg/day)	5.97E-04	33.00	78.00	80.00	1.04
LADC _{pot} (mg/L)	4.59E-02	33.00	78.00	NA	NA

REMARKS:

POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0007

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 7

RELEASE ACTIVITY:USE:Max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:	11.
Per Site Fugitive Release:	[REDACTED] kg/site/day
Fugitive Release Days per Year:	1.00 days
% Removal via Fugitive Release:	0.00 %
Total Fugitive Release:	[REDACTED] kg/yr
Max Annual Average Air Concentration (Fugitive):	3.37 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration(Fugitive):	N/A $\mu\text{g}/\text{m}^3$
Per Site Stack Release:	[REDACTED] kg/site/day
Stack Release Days per Year:	NA days
% Removal via Stack Release:	99.90 %
Total Stack Release:	[REDACTED] kg/yr
Max Annual Average Air Concentration (Stack):	0.00 $\mu\text{g}/\text{m}^3$
Max 24 Hour Average Air Concentration (Stack):	N/A $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	N/A	2.61E-04	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	N/A	1.43E-03	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	N/A	N/A	NA	1 day	80.00	0.61

Inhalation Comments:

Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

Infant (1-2 years)
Infant (<1 year)

Youth (16-20 years)
Youth (11-15 years)
Child (6-10 years)
Small Child (3-5 years)
Infant (1-2 years)
Infant (<1 year)

Time to background co

Youth (11-15 years)
Child (6-10 years)
Small Child (3-5 years)
Infant (1-2 years)
Infant (<1 year)

Infant (1-2 years)
Infant (<1 year)

Acute Dermal Results:

Receptor
Adult (≥21 years)
Youth (16-20 years)
Youth (11-15 years)
Child (6-10 years)
Small Child (3-5 years)
Infant (1-2 years)
Infant (<1 year)

Article Users:

Activity Pattern:

Inputs

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